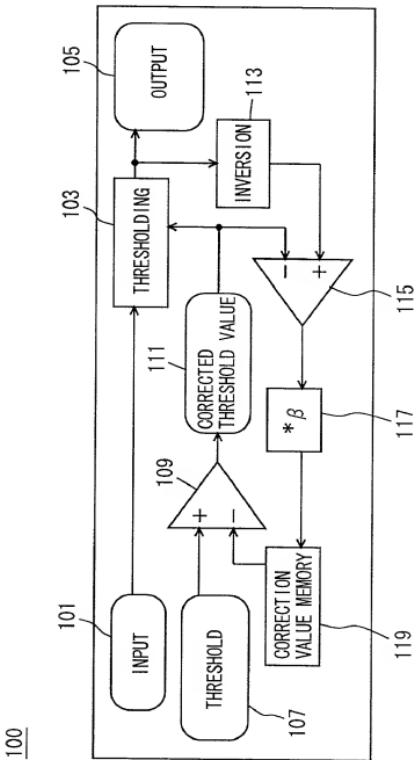


100  
101  
103  
105  
107  
109  
111  
113  
115  
117  
119

FIG. 1



F I G. 2

		○	32	8
2	16	32	16	4
1	4	8	2	1

FIG. 3  
1500000 SET44260

FIG. 3

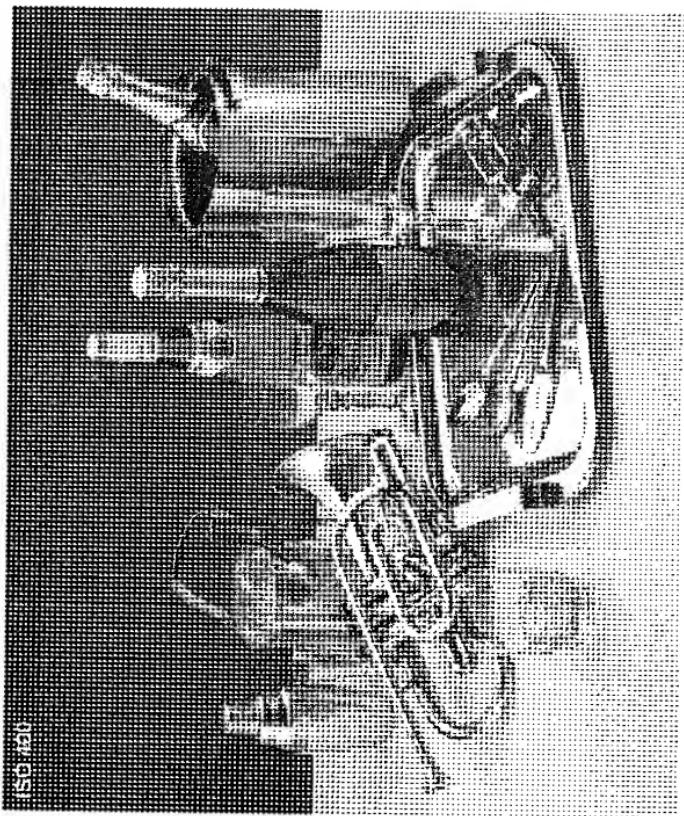


FIG. 4



009090-5274-01

098742960

FIG. 5

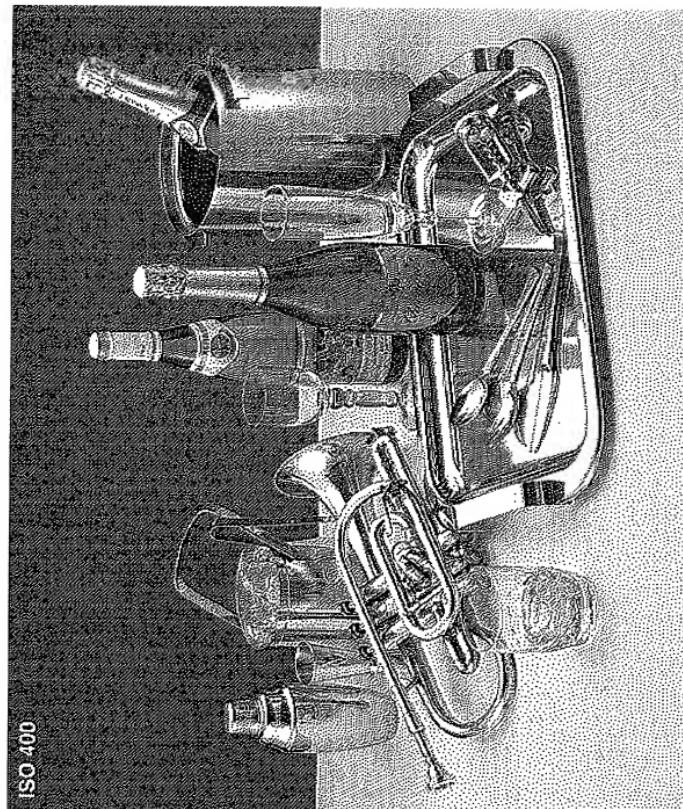


FIG. 6



09824125 - 0150601

ISO 400

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FIG. 7

50400



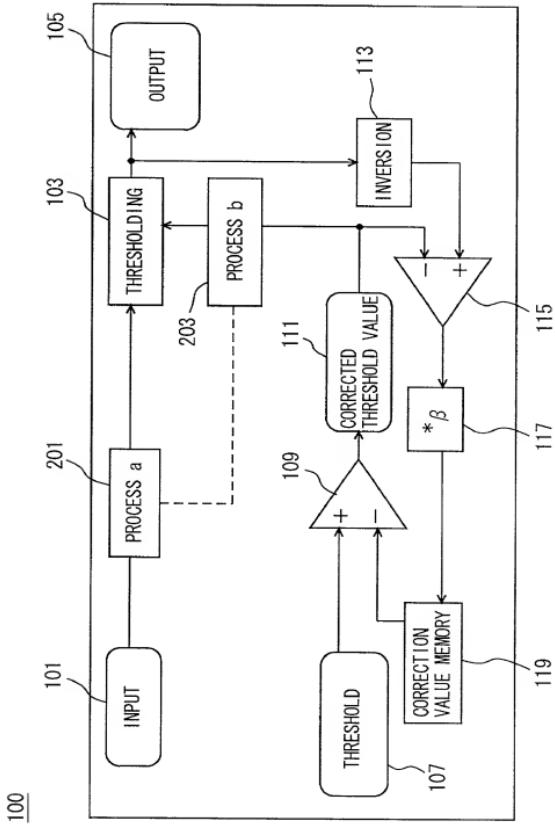
FIG. 8



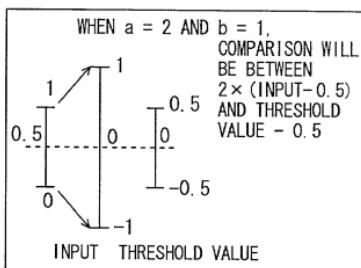
0693744525 - 0693610

ISO 400

FIG. 9



F I G. 10



F I G. 11

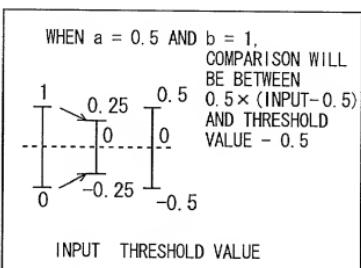


FIG. 12

EXAMPLES OF RELATION BETWEEN THE RATIO OF SET COEFFICIENTS AND DEGREE OF EDGE ENHANCEMENT

DEGREE OF EDGE ENHANCEMENT	RELATION BETWEEN COEFFICIENTS a AND b
STRONGER	$a > b$
↑	
COMPARABLE TO COMMON THRESHOLD VALUE DIFFUSION	$a = b$
↓	
WEAKER	$a < b$

FIG. 13

TABLE OF CONDITIONS FOR COEFFICIENT SETTING

	COEFFICIENT a	COEFFICIENT b	$a/b$	$\beta$
EXAMPLE 1	0.1	1	0.1	0.08
EXAMPLE 2	1	1	1	0.5
EXAMPLE 3	2	1	2	0.68

FIG. 17

	COEFFICIENT a	COEFFICIENT b	$a/b$
EXAMPLE 1'	1	10	0.1
EXAMPLE 2'	1	1	1
EXAMPLE 3'	1	0.5	2

TO SIGN = 52747/860

FIG. 14



09874125 - 060601

FIG. 15



ISO 400

009050-012547289800

FIG. 16

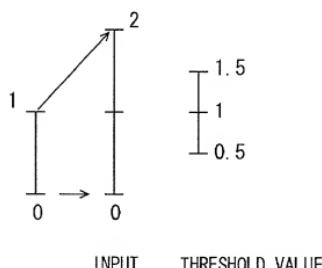


F I G. 18

	COEFFICIENT a	COEFFICIENT b	$a/b$
EXAMPLE 1"	0.5	5	0.1
EXAMPLE 2"	2	2	1
EXAMPLE 3"	4	2	2

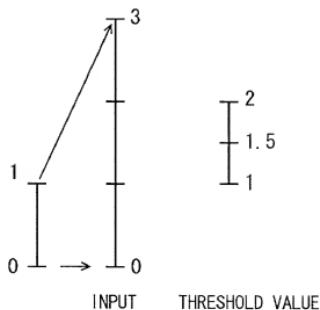
F I G. 19

WHEN  $a = 2, b = 1$



F I G. 20

WHEN  $a = 3$ ,  $b = 1$



09874125 - 060601

F I G. 21

WHEN  $a = 0.5$ ,  $b = 1$

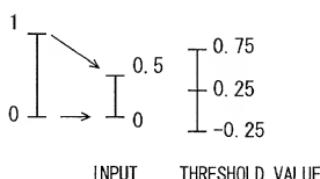


FIG. 22

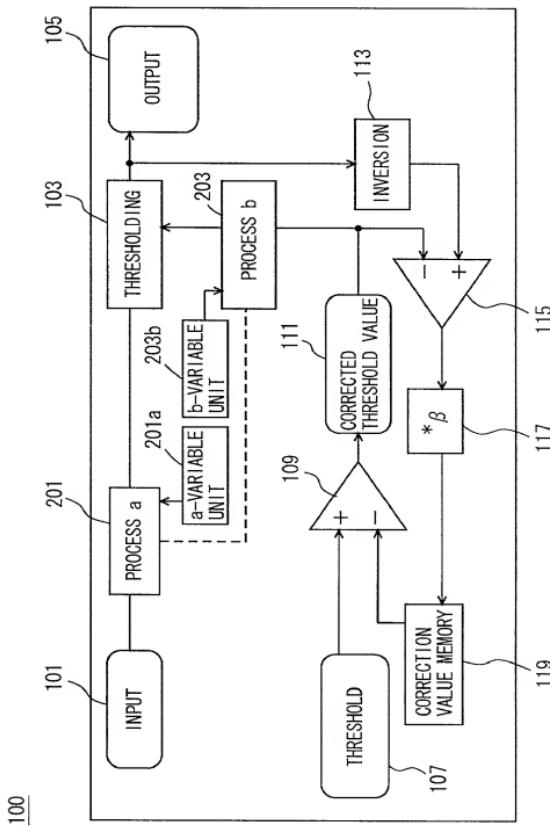


FIG. 23

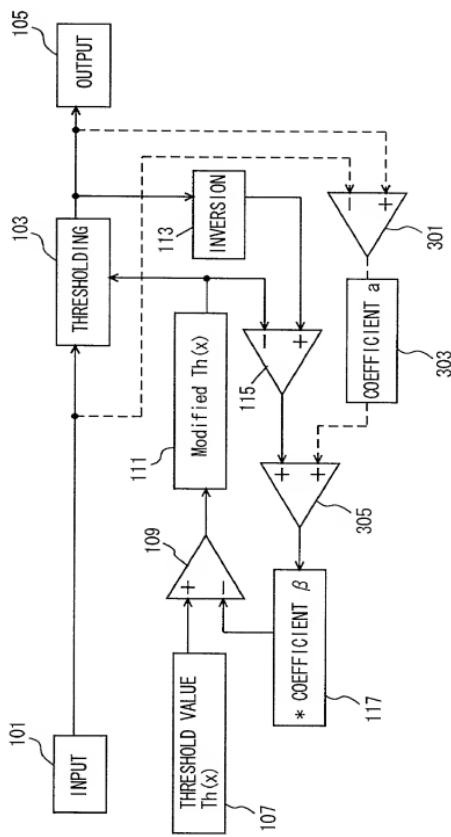


FIG. 24

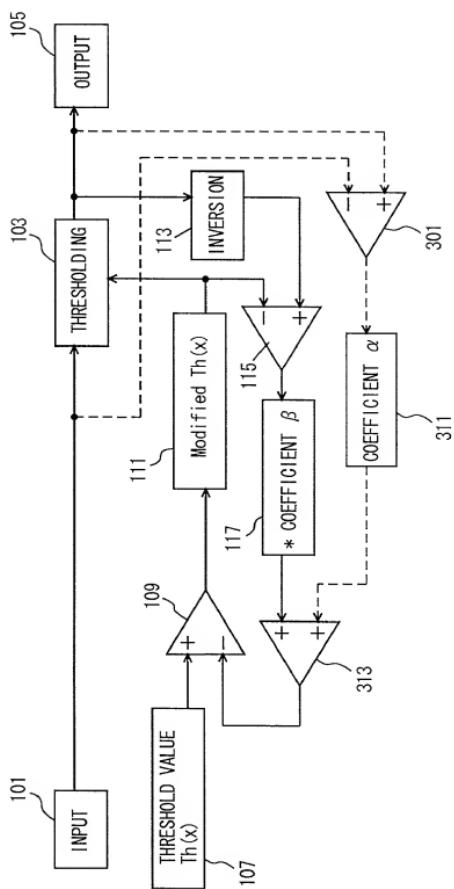


FIG. 25

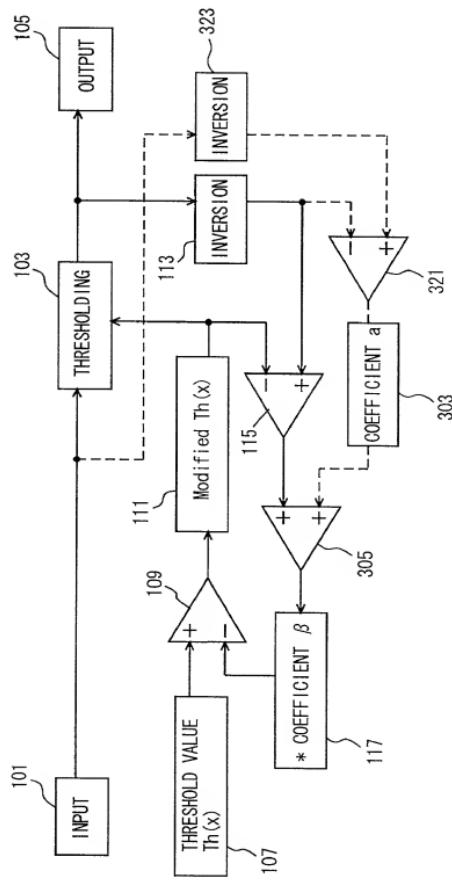
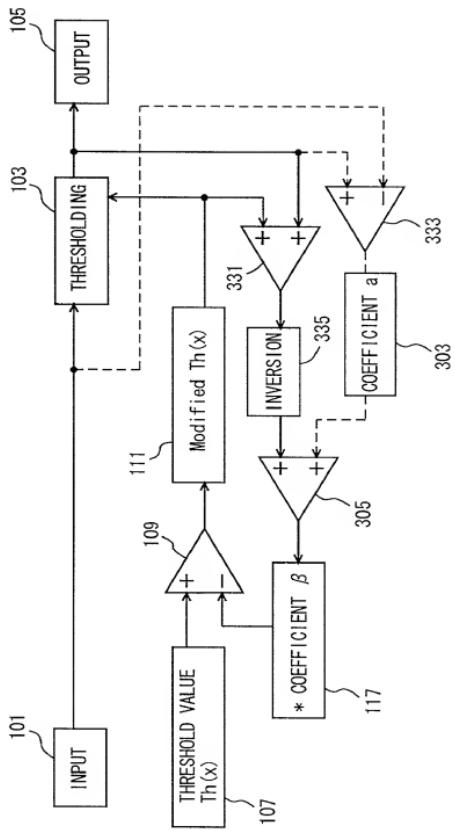


FIG. 26



## FIG. 27

EXAMPLES OF RELATION BETWEEN THE VALUE OF SET COEFFICIENTS AND DEGREE OF EDGE ENHANCEMENT

DEGREE OF EDGE ENHANCEMENT	COEFFICIENTS $a$
STRONGER	$a > 0$
↑	
COMPARABLE TO COMMON THRESHOLD VALUE DIFFUSION	$a = 0$
↓	
WEAKER	$a < 0$

## FIG. 28

TABLE OF SET COEFFICIENT VALUES

	COEFFICIENT $a$	
RESULT 1	0.5	STRONG EDGE ENHANCEMENT
RESULT 2	0.2	↑
RESULT 3	0	STANDARD THRESHOLD VALUE DIFFUSION
RESULT 4	-1	↓
RESULT 5	-5	WEAK EDGE ENHANCEMENT
ERROR DIFFUSION	-	STANDARD ERROR VALUE DIFFUSION

FIG. 29



RESULT 1

FIG. 30



RESULT 2

09874135 • 060501

FIG. 31



RESULT 3

09874125 - 0160601

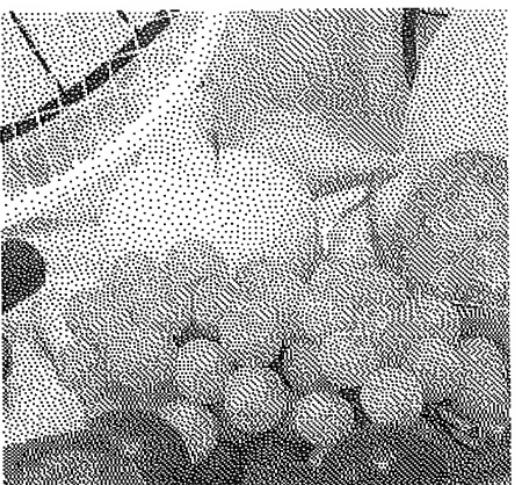
FIG. 32



RESULT 4

09874125 • 060601

FIG. 33



RESULT 5

09050 - 09050 114425 0987470

FIG. 34



## ERROR DIFFUSION

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FIG. 35

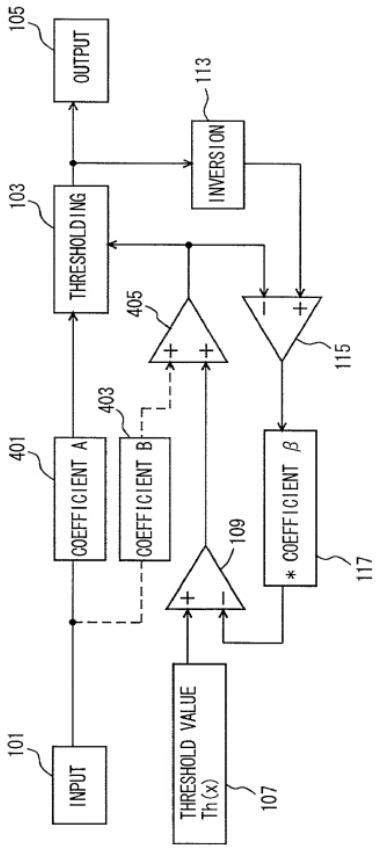
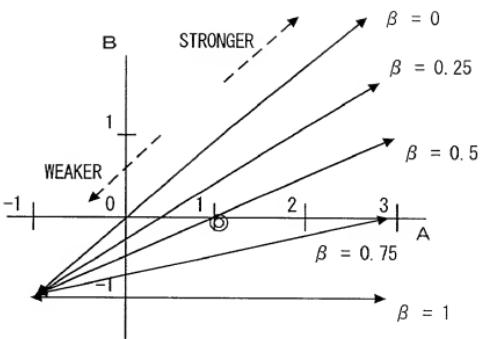


FIG. 36



09874125 - 060601

## FIG. 37

 $\beta = 0.25$ 

		WEAK			STRONG
		-1	0	1	2
A		-1	-0.25	0.5	1.25
B		-1	-0.5	0	2

 $\beta = 0.5$  (STANDARD THRESHOLD VALUE DIFFUSION)

		WEAK		STD	STRONG
		-1	0	1	2
A		-1	-0.5	0	0.5
B		-1	-0.5	0	1

 $\beta = 0.75$ 

		WEAK		STRONG	STRONG	STRONG
		-1	0	1	2	3
A		-1	0	1	2	3
B		-1	-0.75	-0.5	-0.25	0

## FIG. 38

TABLE OF SET COEFFICIENT VALUES (IN RESULTS 1 TO 5,  $\beta = 0.5$ )

	COEFFICIENT A	COEFFICIENT B	
RESULT 1	3	1	STRONG EDGE ENHANCEMENT
RESULT 2	2	0.5	↑
RESULT 3	1	0	STANDARD THRESHOLD VALUE DIFFUSION
RESULT 4	0	-0.5	↓
RESULT 5	-1	-1	WEAK EDGE ENHANCEMENT
ERROR DIFFUSION	—	—	STANDARD ERROR VALUE DIFFUSION

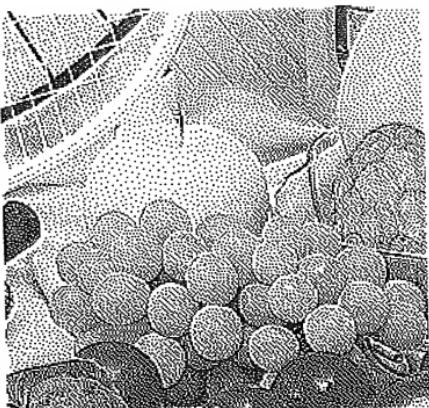
FIG. 39



RESULT 1

09874125 - 060601

FIG. 40



RESULT 2

FIG. 41



RESULT 3

639874125 - 060601

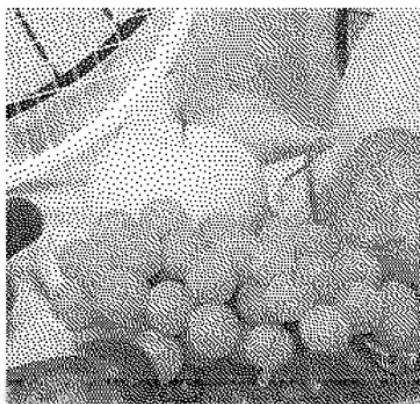
FIG. 42



RESULT 4

09874125 - 060601

FIG. 43



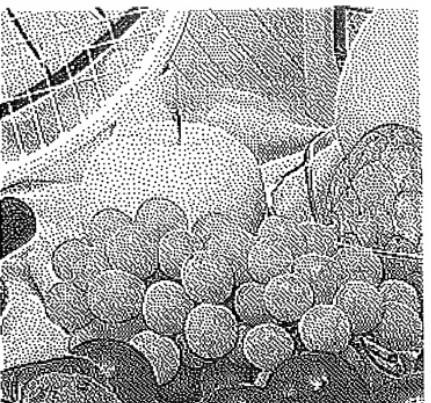
RESULT 5

09874125 , 050601

FIG. 44

	COEFFICIENT A	COEFFICIENT B	COEFFICIENT $\beta$	STRONG EDGE ENHANCEMENT
RESULT 6	3	2	0.25	STRONG EDGE ENHANCEMENT
RESULT 7	-1	-1	0.25	WEAK
RESULT 8	3	0	0.75	STRONG EDGE ENHANCEMENT
RESULT 9	-1	-1	0.75	WEAK

FIG. 45



RESULT 6

09874125 - 060601

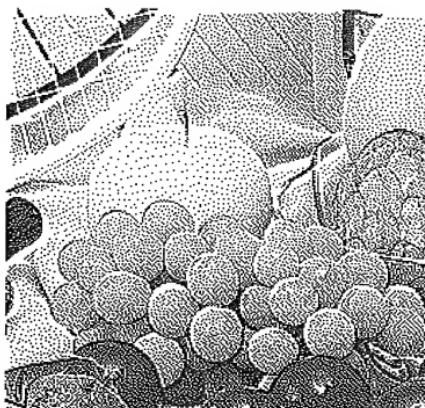
FIG. 46



## RESULT 7

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FIG. 47



RESULT 8

09874125 - 060501

FIG. 48



RESULT 9

FIG. 49 PRIOR ART

